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B. Bourguignon, M. Stoica, B. Dragnea, S. Carrez, J. Boulmer, J.-P. Budin, D. Débarre and A. Aliouchouche, Laser modifications of Si(100):Cl surfaces induced by surface melting: etching and cleaning 338 (1995) 94

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S. Lee and Y. Okawa, Changes of the $Pt_3Co(100)$ surface stoichiometry with NO adsorption 338 (1995) L833

Oxygen

U. Burghaus and H. Conrad, Evidence for two kinetically distinct atomic oxygen species on Ag(110): a molecular beam study of the CO oxidation reaction 338 (1995) L869

K. Morgenstern, H. Niehus and G. Comsa, Reconstruction of the oxygen covered $Cu_3Au(110)$ surface investigated by low energy ion back scattering and LEED 338 (1995) 1

J.-F. Jia, K. Wu, S.-H. Lu, R.-G. Zhao, X.-m. Wei, S.-C. Wu and D.-Z. Wang, Oxidation of ethylene on the ordered alloy surface Pd{001}c(2 × 2)-Mn 338 (1995) 69

Water

C. Poncey, F. Rochet, G. Dufour, H. Roulet, F. Sirotti and G. Panaccione, Adsorption of water on Si(001)-2 × 1 and Si(111)-7 × 7 surfaces at 90 and 300 K: a Si 2p core-level and valence band study with synchrotron radiation 338 (1995) 143

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Amorphous surfaces

S.Z. Weisz, J. Avalos, M. Gomez, A. Many, Y. Goldstein and E. Savir, Surface states on amorphous silicon 338 (1995) 117

J.A. Glass, Jr., E.A. Wovchko and J.T. Yates, Jr., Reaction of methanol with porous silicon 338 (1995) 125

Glass surfaces

R.D. Bendale and L.L. Hench, Molecular orbital models of strained tetrahedral edge shared active sites on dehydroxylated silica: an AM1 and PM3 study 338 (1995) 322

Liquid surfaces

O.G. Ashkotov and M.V. Zdravomislov, Study of surface segregation and surface tension of Sn–Ga solution using AES and sessile drop methods 338 (1995) 279

Single crystal surfaces

S.J. Stranick, M.M. Kamna and P.S. Weiss, Interactions and dynamics of benzene on Cu{111} at low temperature 338 (1995) 41

B.J. Kowalski, A. Cricenti and B.A. Orlowski, Differential reflectivity of cleaved CdTe(110) surface with polarised light 338 (1995) 183

R. Lüthi, E. Meyer, H. Haefke, L. Howald, W. Gutmannsbauer, M. Guggisberg, M. Bammerlin and H.-J. Güntherodt, Nanotribology: an UHV-SFM study on thin films of C_{60} and AgBr 338 (1995) 247

Low index single crystal surfaces

M. Takahasi, S. Nakatani, Y. Ito, T. Takahashi, X.W. Zhang and M. Ando, Surface X-ray diffraction study on the Si(001)2 × 1 structure 338 (1995) L846

K. Morgenstern, H. Niehus and G. Comsa, Reconstruction of the oxygen covered $Cu_3Au(110)$ surface investigated by low energy ion back scattering and LEED 338 (1995) 1

B. Bourguignon, M. Stoica, B. Dragnea, S. Carrez, J. Boulmer, J.-P. Budin, D. Débarre and A. Aliouchouche, Laser modifications of Si(100):Cl surfaces induced by surface melting: etching and cleaning 338 (1995) 94

K.A. Brown and W. Ho, The interaction of methyl chloride and Si(100)2 × 1 338 (1995) 111

C. Poncey, F. Rochet, G. Dufour, H. Roulet, F. Sirotti and G. Panaccione, Adsorption of water on Si(001)-2 × 1 and Si(111)-7 × 7 surfaces at 90 and 300 K: a Si 2p core-level and valence band study with synchrotron radiation 338 (1995) 143

C.-S. Zhang, B. Li and P.R. Norton, The segregation of Fe on the $(10\bar{1}0)$ Zr surface 338 (1995) 157

R.J.W.E. Lahaye, A.W. Kleyn, S. Stolte and S. Holloway, The scattering of Ar from Ag(111): a molecular dynamics study 338 (1995) 169

J.N. Russell, Jr., S.S. Sarvis and R.E. Morris, Adsorption and thermal decomposition of phenol on Ni(110) 338 (1995) 189

H. Müller, D. Gador and V. Kempter, Dissociation and electronic transitions in low energy grazing collisions of CO_2^+ ions with W(110) surfaces 338 (1995) 313

Stepped single crystal surfaces

Q. Sun, J. Xie and T. Zhang, Chemisorption of hydrogen on stepped (410) surfaces of Ni and Cu 338 (1995) 11

L. Masson, L. Barbier, J. Cousty and B. Salanon, Influence of an adsorbate on the morphology of a vicinal surface: sulfur on Cu(1 1 11), a STM and helium diffraction study 338 (1995) 60

M. Yoon, S.G.J. Mochrie, D.M. Zehner, G.M. Watson and D. Gibbs, Periodic step-bunching on a miscut Pt(111) surface 338 (1995) 225

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Ceramic thin films

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Polycrystalline thin films

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Porous solids

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Insulating films

R. Lüthi, E. Meyer, H. Haefke, L. Howald, W. Gutmannsbauer, M. Guggisberg, M. Bammerlin and H.-J. Güntherodt, Nanotribology: an UHV-SFM study on thin films of C_{60} and AgBr 338 (1995) 247

Insulating surfaces

R. Lüthi, E. Meyer, H. Haefke, L. Howald, W. Gutmannsbauer, M. Guggisberg, M. Bammerlin and H.-J. Güntherodt, Nanotribology: an UHV-SFM study on thin films of C_{60} and AgBr 338 (1995) 247

Y.V. Demidenko, S.V. Kriuchenko and V.Z. Lozovski, Electromagnetic waves in an inhomogeneously polarized layer of adsorbed molecules 338 (1995) 283

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K. Konstadinidis, P. Zhang, R.L. Opila and D.L. Allara, An in-situ X-ray photoelectron study of the interaction between vapor-deposited Ti atoms and functional groups at the surfaces of self-assembled monolayers 338 (1995) 300

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